AUTODOC CLUB

# How to change engine oil and filter on **BMW E92** – replacement guide

## VIDEO TUTORIAL




**Important!**

This replacement procedure can be used for:
BMW X5 (E70) xDrive 35 i, BMW 3 Touring (E91) 325i 3.0, BMW 5 Saloon (F10) 520i 2.0, BMW 6 Convertible (F12) 640i 3.0, BMW 6 Coupe (F13) 640i 3.0, BMW 1 Hatchback (F20) 125i 2.0, BMW 7 (F01, F02, F03, F04) 730i 3.0, BMW 1 Coupe (E82) M, BMW X1 (E84) xDrive 28 i, BMW X3 (F25) xDrive 28 i, BMW 5 Saloon (F10) 535i xDrive 3.0, BMW 5 Saloon (F10) 528i 2.0, BMW 5 Saloon (F10) 528i xDrive 2.0, BMW 5 Saloon (F10) 530i 3.0, BMW 5 Saloon (F10) ActiveHybrid, (+ 219)

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The steps may slightly vary depending on the car design.

## REPLACEMENT: ENGINE OIL AND FILTER – BMW E92. TOOLS YOU MIGHT NEED:



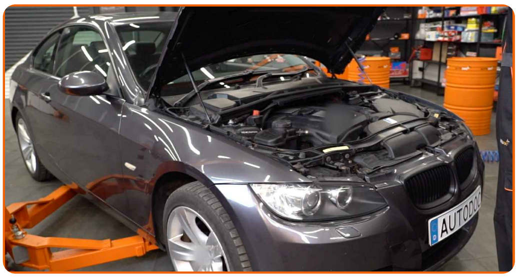

- All-purpose cleaning spray
- Drive socket # 17
- Oil filter cup socket 86-16F
- Ratchet wrench
- Torque wrench
- Flat Screwdriver
- Funnel
- Oil drain pan
- Microfibre towel
- Fender cover

## Replacement: engine oil and filter – BMW E92. AUTODOC recommends:

- Replace the oil filter every time when changing motor oil.
- Use only new O-rings during installation.
- Wear gloves to prevent contact with hot liquid.
- Please note: all work on the car – BMW E92 – should be done with the engine switched off.

## CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

**1** Open the hood.



**2** Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



**3** Unscrew the oil filler plug.



**4** Unscrew the filter housing cap together with the old filter element. Use the 86-16F socket. Use a ratchet wrench.



**5** Prepare a container for the old oil filter.



**6** Remove the oil filter.



**7** Put the old oil filter in the container.



## Replacement: engine oil and filter – BMW E92. AUTODOC experts recommend:

- Move up the container. The oil starts to drain out of the drainage hole immediately after you have removed the oil filter.

**8** Cover the oil filter housing with a microfibre towel to prevent dirt and foreign objects from getting into the system.



**9** Lift the car using a jack or place it over an inspection pit.



## Replacement: engine oil and filter – BMW E92. Tip:

- The vehicle must be on even keel, and if it is at an angle, the drain plug must be at the lowest point.
- All work should be done with the engine stopped.

**10** Unscrew the fastener of the drain plug access panel. Use a flat screwdriver.

11

Remove the drain plug access panel.




12

Put a waste oil container with at least 7 l capacity under the drainage hole.



13

Unscrew the drain plug. Use a drive socket #17. Use a ratchet wrench.



14

Drain the used oil.



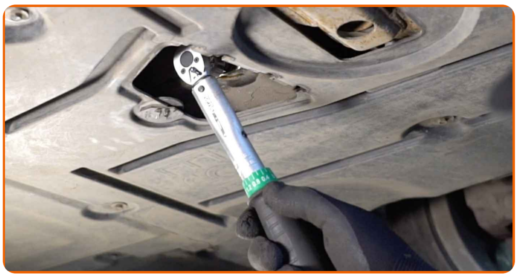
## Replacement: engine oil and filter – BMW E92. AUTODOC experts recommend:

- Caution! The oil may be hot.
- Wait until the oil has completely drained from the drainage hole.

**15** Clean the area of the oil pan drainage hole.



**16** Screw in the new drainage plug and tighten it. Use a drive socket #17. Use a torque wrench. Tighten it to 30 Nm torque.



**17** Clean the area of the oil pan drainage hole. Use all-purpose cleaning spray.



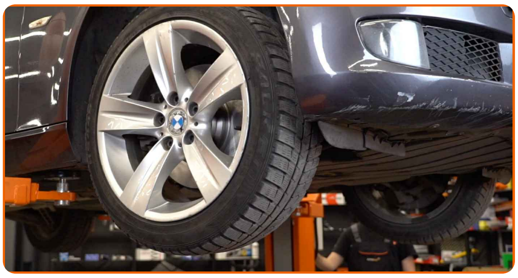
18 Install the drain plug access panel.



19 Screw in the fastener of the drain plug access panel. Use a flat screwdriver.



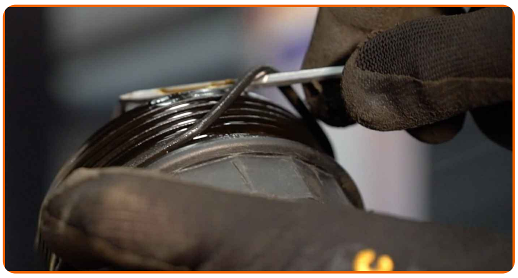
20 Lower the car.



21 Detach the oil filter from the filter cover.



22 Remove old o-rings from the oil filter cover. Use a flat screwdriver.



**23** Clean the oil filter housing cap. Use all-purpose cleaning spray.



**24** Install new O-rings and a new oil filter to their mounting seats on the filter cover.



### Please note!

- Make sure to install the filter correctly. Don't mix up the sides of the part.

**25** Remove the microfibre towel from the oil filter housing.



**26** Lubricate the rubber seal of the new filter with a little amount of fresh oil.



**27** Screw the new filter into its place.



**28** Install a new oil filter housing cover and tighten it. Use the 86-16F socket. Use a torque wrench. Tighten it to 25 Nm torque.



**29** Remove the oil filler cap. Insert the funnel.



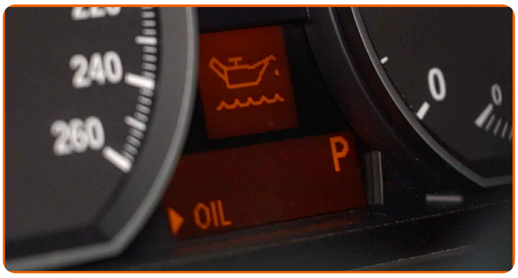
**30** Pour oil into the engine through the filler. Required amount of oil: 6.5 l.



## Replacement: engine oil and filter – BMW E92. AUTODOC recommends:

- Use the oil recommended by the manufacturer.

31 Check the oil level using the dipstick. Top up oil if necessary.




**Please note!**

- The oil level should be between the Min and Max marks.

32 Tighten the oil filler cap.



33 Run the engine for a few minutes. After the oil pressure warning light goes out, stop the engine.

34 Check the oil level 5 minutes after the stop of the engine operation using a dipstick and add oil if necessary.



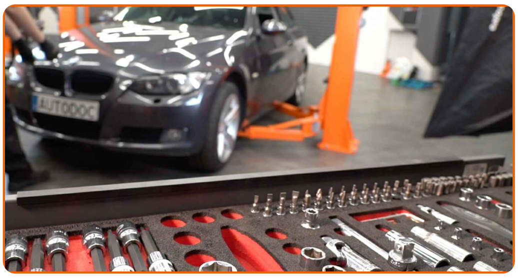
## Please note!

- The oil level should be between the Min and Max marks.
- Make sure that the oil filler cap is properly tightened.
- Check the threaded plug of the drainage hole and the oil filter seal for tightness. If necessary, carefully tighten them up.

**35** Remove the fender protection cover.



**36** Close the hood.



## Replacement: engine oil and filter – BMW E92. Tip from AUTODOC experts:

- Note that oil pressure warning light, which indicates insufficient pressure in the lubrication system, may be on for a longer time than usual. After a few seconds, the oil will fill all the channels, and the light will go out.
- To protect the environment from pollution, be sure to dispose of the used filters at special collection points.

## WELL DONE!

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